# LMAT2420

*2013-2014*

# Combinatorial geometry

| 5.0 credits | 30.0 h + 15.0 h | 1q |
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| Teacher(s) : | Claeys Tom ; |
| Language : | Français |
| Place of the course | Louvain-la-Neuve |
| Prerequisites : | elements of algebra and geometry on bachelor level |
| Main themes : | Young tableaux (calculus, Robinson-Schensted-Knuth correspondence, Cauchy-Littlewood formula), plane partitions, symmetric polynomials, Schur polynomials, applications in representation theory and geometry |
| Aims : | The ability to understand the theory of Young tableaux and its applications in combinatorics, geometry and representation theory<br><br>*The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".* |
| Evaluation methods : | The evaluation is based on an oral open book exam (16 points) and the presentation of a work made during the semester (4 pts) |
| Other infos : | Precursorycourses Géométrie et topologie différentielles I Evaluation Written examination. |
| Cycle and year of study : | > Master [120] in Mathematics |
| Faculty or entity in charge: | MATH |